

## Abstract

The present invention discloses a network system, in which data is transmitted in the form of transmission frames, the system including a network control unit (4) for controlling communication in the network and a terminal (2) for receiving and transmitting data from/to the network control unit (4). When the network control unit (4) receives a request for changing from a first user data rate to a second user data rate it adds/deletes fill data (FD) to/from a transmission frame corresponding to the requested change in the user data rate for transmitting data to the terminal (2) at the second user data rate. The terminal (2) detects the change in the amount of fill data (FD) and changes the user data rate transmitted to the network control unit (4) according to the detected change. In this system, it is possible to smoothly change the data rate without affecting the quality of service.

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